

05/19/2003 12:41 FAX 2109787700

002

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Patent Of:
Albert Charles McNamara

Patent No. 5,901,641
Issued: May 11, 1999

Serial No.: 10/072,001
Filing Date: February 8, 2002

Title: BAFFLE FOR DEEP FRYER
HEAT EXCHANGER

§ Attorney Docket No.: P-109009(Reissue)

§ Examiner: Timothy F. Simone

§ Art Unit: 1761

Commissioner for Patents
P. O. Box 1450
Alexandria, VA 22313-1450

DECLARATION OF ALBERT CHARLES McNAMARA

1. My name is Albert Charles McNamara. I am the inventor of the invention entitled "Baffle For Deep Fryer Heat Exchanger."
2. I have personal, first-hand knowledge of the facts stated herein.
3. I hereby affirm that the attached reissue oath/declaration, attached as Exhibit "2A," contains my full and complete signature, as does the original oath/declaration, attached as Exhibit "2B."

05/19/2003 12:41 FAX 2108787700

003

DECLARATION

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Respectfully submitted,


ALBERT CHARLES McNAMARADate: 22 MAY 03

- 2 -

3369298v1

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE REGISTRATION/APPLICATION OF: Albert Charles McNamara	ATTY DKT NO. P-109009(reissue)
Patent No. 5,901,641	GROUP ART UNIT: _____
Issued: May 11, 1999	EXAMINER: _____
Title: Baffle for Deep Fryer Heat Exchanger	
TO: BOX REISSUE Assistant Commissioner of Patents and Trademarks Washington, D.C. 20231	

REISSUE OATH/DECLARATION BY THE INVENTOR

Dear Sir/Madam:

As a below named inventor, I hereby declare that:

My residence, mailing address and citizenship are stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is described and claimed in patent number 5,901,641, granted May 11, 1999, and for which a reissue patent is sought on the invention entitled Baffle For Deep Fryer Heat Exchanger, the specification of which



is attached hereto.
was filed on _____ as reissue application number _____ /
and was amended on _____
(if applicable)

I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56.

I verily believe the original patent to be wholly or partly inoperative or invalid, for the reasons described below. (Check boxes that apply).

- by reason of a defective specification or drawing.
- by reason of the patentee claiming more or less than he had the right to claim in the patent.
- by reason of other errors.

At least one error upon which reissue is based is described below.

The specification of the original patent failed to explicitly describe holes upon the baffle plate (40) through which heating fluid (B) may pass.

All errors corrected in this reissue application arose without any deceptive intention on the part of the applicant. As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the United States Patent and Trademark Office connected therewith.

Name(s)	Registration Number
Mark H. Miller	Registration No. 29,197
Richard R. Ruble	Registration No. 45,720
Daniel D. Chapman	Registration No. 32,726
William B. Nash	Registration No. 33,743
Thomas Sisson	Registration No. 29,348
Cline H. White	Registration No. 45,213

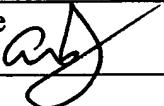
Correspondence Address: Direct all communications about the application:

<input type="checkbox"/> Customer Number	<i>Type Customer Number Here</i>		→ <i>Place Customer Number Bar Code Label here</i>		
<input type="checkbox"/> Firm or Individual Name	Jackson Walker L.L.P.				
Address	112 E. Pecan Street, Suite 2100				
City	San Antonio	State	TX	Zip	78205
Country	U.S.A.				
Telephone	(210) 978-7700	Fax	(210) 978-7790		

I hereby declare that all statements made herein of my own knowledge are true and that statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine and imprisonment, or both, under 18 U.S.C. 1001, and that such willful false statements may jeopardize the validity of the application, any patent issuing thereon, or any patent to which this declaration is directed.

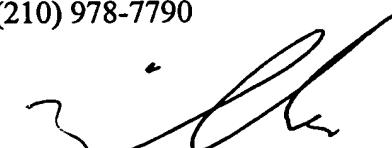
Full name of sole or first inventor (given name, family name)

Albert Charles McNamara

Inventor's signature 	Date 28 JAN 02
Residence San Antonio, Texas	Citizenship United States
Mailing Address 302 Spencer Lane, San Antonio, Texas 78201	
Full name of second joint inventor (given name, family name)	
N/A	
Inventor's signature	Date
Residence	Citizenship
Mailing Address	
Full name of third joint inventor (given name, family name)	
N/A	
Inventor's signature	Date
Residence	Citizenship
Mailing Address	
<input type="checkbox"/> Additional joint inventors are named on separately numbered sheets attached hereto.	

Respectfully submitted,

Jackson Walker L.L.P.
 112 E. Pecan Street, Suite 2100
 San Antonio, TX 78205
 Phone: (210) 978-7700
 Fax: (210) 978-7790

By 
 Mark H. Miller
 Regis. No. 29,197

CERTIFICATE OF EXPRESS MAILING

I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being deposited on the date shown below with the United States Postal Service, as Express Mail Post Office to Addressee (37 CFR 1.10), Mailing Label No. EL166472444US addressed to the Commissioner of Patents and Trademarks, Washington, D.C. 20231.

Date: February 8, 2008

Carolyn J. Gill
Carolyn J. Gill

3052108.1

**DECLARATION AND POWER OF ATTORNEY
FOR PATENT APPLICATION**

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled:

BAFFLE FOR DEEP FRYER HEAT EXCHANGER

the specification of which is attached hereto unless the following space is checked:

X is attached hereto.
____ was filed on _____ as United States Application Serial Number or PCT International Application Number _____.

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR § 1.56.

I hereby appoint the following attorneys and agent(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith:

<u>Gregory J. Cohan</u> Reg. No. 40959	Dale A. Malone	Reg. No. 32155
<u>Joseph M. Potenza</u> Reg. No. 28175	Peter D. McDermott	Reg. No. 29411
<u>Donald W. Banner</u> Reg. No. 17037	Christopher L. McKee	Reg. No. 32384
<u>Sheldon W. Witcoff</u> Reg. No. 17399	Edward F. McKie, Jr.	Reg. No. 17335
<u>Robert F. Altherr</u> Reg. No. 31810	Nina L. Medlock	Reg. No. 29673
<u>Mark T. Banner</u> Reg. No. 29888	Timothy C. Meece	Reg. No. 38553
<u>Pamela I. Banner</u> Reg. No. 33644	Frederic M. Meeker	Reg. No. 35282
<u>William W. Beckett</u> Reg. No. 18262	Jon O. Nelson	Reg. No. 24566
<u>James V. Callahan</u> Reg. No. 20095	James A. Niegowski	Reg. No. 28331
<u>Alan I. Cantor</u> Reg. No. 28163	Thomas L. Peterson	Reg. No. 30969
<u>Marc S. Cooperman</u> Reg. No. 34143	Charles F. Pigott	Reg. No. 19408
<u>Laura J. Demoor</u> Reg. No. 39654	Thomas K. Pratt	Reg. No. 37210
<u>W. Dennis Drehkoff</u> Reg. No. 27193	Christopher J. Renk	Reg. No. 33761
<u>Gary D. Fedorochko</u> Reg. No. 35509	Robert H. Resis	Reg. No. 31168
<u>Daniel E. Fisher</u> Reg. No. 32133	Steven P. Schad	Reg. No. 32550
<u>William J. Fisher</u> Reg. No. 34162	Michael H. Shanahan	Reg. No. 24438
<u>Christopher R. Glembocki</u> Reg. No. 38800	Michael J. Shea	Reg. No. 34725
<u>Helen A. Greer</u> Reg. No. 36816	Charles W. Shifley	Reg. No. 28042
<u>Brian E. Hanlon</u> Reg. No. 40449	Joseph M. Skerpov	Reg. No. 29864
<u>Patricia E. Hong</u> Reg. No. 34373	J. Pieter Van Es	Reg. No. 37746
<u>Dale H. Hoscheit</u> Reg. No. 19090	Kathleen Madden Williams	Reg. No. 34380
<u>John P. Iwanicki</u> Reg. No. 34628	Franklin D. Wolfe	Reg. No. 19724
<u>Thomas H. Jackson</u> Reg. No. 29808	Susan A. Wolfe	Reg. No. 33568
<u>Sarah A. Kagan</u> Reg. No. 32141	Bradley C. Wright	Reg. No. 38061
<u>Robert S. Katz</u> Reg. No. 36402		

as my Attorneys and as my Registered Patent Agents.

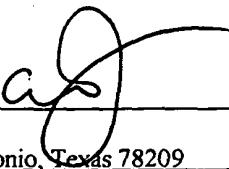
Address all telephone calls to Gregory J. Cohan at (617) 227-7111.

Address all correspondence to Joseph M. Potenza, Banner & Witcoff, Ltd., 1001 G Street, N.W. - 11th Floor, Washington, D.C. 20001-4597.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that wilful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of sole inventor (given name, family name):

Albert Charles McNamara

Inventor's signature: 

Date: 29 Oct 38

Residence: 2307 Kenilworth, San Antonio, Texas 78209

Citizenship: U.S.A.

Post Office Address: 2307 Kenilworth, San Antonio, Texas 78209

H:\ATTY\GJC\AFC\75339\DECLARAT.POA

Pages 2-6 of Complained of Amendment with Portion Identifiers

A "As shown in Fig. 3, in one embodiment, crease 44 of each tab 42 is downstream with respect to the flow of the heating fluid designated as "B" in Figure 3. As shown in Fig. 3, heating fluid B is deflected by tabs 42.

B As shown in Fig. 3 and as discussed herein, tabs 42 comprise portions of plate 40 which are bent outwardly away from either first surface 41 or second surface 43 of plate 40. As shown in Figs. 3

and 6-9, at least one of tabs 42 is positioned in the first portion 54 of plate 40 on one side of the longitudinal axis of plate 40 designated as "L" in Figs. 3 and 6-9 and at least one other of tabs 42 is positioned in second portion 56 of plate 40 which is on the other side of plate 40's longitudinal axis L.

D

E As shown in Figs. 3, 4, and 6-9, at least some of tabs 42 are positioned in a plurality of rows of tabs.

F As shown in these Figures, in some embodiments, the rows extend in a direction substantially perpendicular to the longitudinal axis of plate 40. As shown in Figs. 3, 4, and 6-9, each row of tabs

has a tab 42 positioned in first portion 54 of plate 40 and a tab 42 positioned in second portion 56 of plate 40. As shown in Fig. 3, in one embodiment, a row of tabs has a tab 42a extending outwardly

G away from first surface 43 of plate 40, an adjacent tab 42b extending outwardly away from second surface 45 of plate 40 and a third tab 42c which is adjacent tab 42b and which extends outwardly away from first surface 43 of plate 40. As shown in Fig. 3, other rows of tabs may have the

H individual tabs extending from either the first surface 43 or second surface 45.

As shown in Figs. 3 and 6-9, in some embodiments, for the purpose of describing location and distribution of invention elements, a center line of plate 40 may be located where the longitudinal axis is shown located along the center of plate 40.

As shown in the figures, in some embodiments tabs 42, holes 58 and tab/hole pairs are arranged so the same are found on both sides of the center line. Further, as shown in the figures and described herein, in some embodiments these elements are also arranged symmetrically in a pattern about the center line. In such embodiments, as shown in the figures, the portion of the plate 40 referred to as first portion 54 is instead referred to as first half 54 and the portion of plate 40 referred to as second portion 56 is instead referred to as second half 56.

As shown in Fig. 3, each tab 42 is adjacent to its corresponding hole 58 in plate 40 created by bending tab 42 from plate 40.

At least a portion of a side of each hole 58 is comprised of crease 44 of tab 42 that hole 58 is adjacent to.

As shown in Fig. 3, crease 44 both connects tab 42 to plate 40 and is at least a portion of a side of hole 58.

As shown in Fig. 3 and reflected in Figs. 4-10, tabs 42 extend outwardly from plate 40 over at least part of their adjacent corresponding holes 58.

As expressly shown in Fig. 3, and as is implicit in Figs. 4-10 and the above discussion, heating fluid B is flowable through holes 58 created in plate 40 by bending tabs 42 out of plate 40.

Further, in some embodiments, as shown in Fig. 3 and implicit in Figs 4-10, heating fluid B is diverted by inner surface 60 of tab 42 through tab 42's corresponding hole 58.

As shown in Figs. 3, 4, 5, and 10, the tabs 42 are not in contact with heat transfer tube 16. The baffle plate 40 is located and angled within transfer tube 16, and each of the plurality of tabs 42 on baffle plate 40 have a length and angle which positions tabs 42 relative to heat transfer tube 16 so the tabs

42 are not in contact with heat transfer tube 16.

No structure is shown in this application which

T

(T) Continued

prevents the heated gas from flowing between the end of each tab 42 and the portion of heat transfer conduit 16 most closely adjacent to the end of each tab 42. As discussed above, the increased turbulence of flow within heat transfer tube 16 caused by the invented baffle plate improves and enhances heat transfer from the hot gases through heat transfer tube 16 into the vat containing shortening of the deep fat fryer system.

(U)

(V) Each tab 42 and its corresponding hole 58, share a common crease 44 and are referred to herein as comprising a "tab/hole pair." As shown in Fig. 3, tab 42a and hole 58a comprise tab 42a/hole 58a pair. Tab 42b and hole 58b comprise tab 42b/hole 58b pair. Tab 42c and hole 58c comprise tab 42c/hole 58c pair.

(W)

(Y) As shown in Fig. 3, Web 46a is the portion of plate 40 between tab 42a/hole 58a pair and tab 42b/hole 58b pair. Web 46b is the portion of plate 40 between tab 42b/hole 58b pair and tab 42c/hole 58c pair.

(Z) As shown in Figs. 3 and 6-9, each row of tabs 42, holes 58 and tab/hole pairs may be comprised of at least two tabs, two holes or two tab/hole pairs, or at least three tabs, three holes and three tab/hole pairs, or at least four tabs, four holes and four tab/hole pairs. No limit to the number of tabs, holes or tab/hole pairs in a row is shown.

As shown in Figs. 3 and 6-9, each row has $n - 1$ webs, where n equals the number of tab/hole pairs in the row. If a row is comprised of three tabs and three holes, i.e. three tab/hole pairs, that row has



two webs (3 tab/hole pairs - 1 = 2 webs). If a row is comprised of four tabs and four holes, i.e. four tab/hole pairs, that row has three webs (4 tab/hole pairs - 1 = 3 webs).

As shown in Figs. 3-5 and 7-10, the relationship of tabs 42 on the baffle plate 40 is to generally present alternating sizes, arrangements and angles to the flowing heated gas and alternating from extending from first surface 43 and then second surface 45, for the purpose of increasing turbulence. Some rows are presented in which tabs 42 alternately extend from the first side and second side. As shown in the figures, tabs 42 are presented which extend from the first surface of the tab preceding it (from the point of view of the flowing heated gas of Fig. 3) extend from the second surface and vice versa.

As shown in the Figs., an equal or approximately equal number of tabs, holes, webs, and tab hole pairs may be arranged on either side of the center line of baffle plate 40 on both sides of the baffle plate, which is shown in Figs. 3 and 6-9 as corresponding with longitudinal axis L. As shown in Figs. 3 and 6-9, they may be and arranged generally symmetrically about the longitudinal axis L. As shown in Fig 6, the webs and tabs may be positioned in straight lines, one behind another, in the direction of the longitudinal axis L. As shown in Fig 6, the tabs 42 may be similarly positioned."

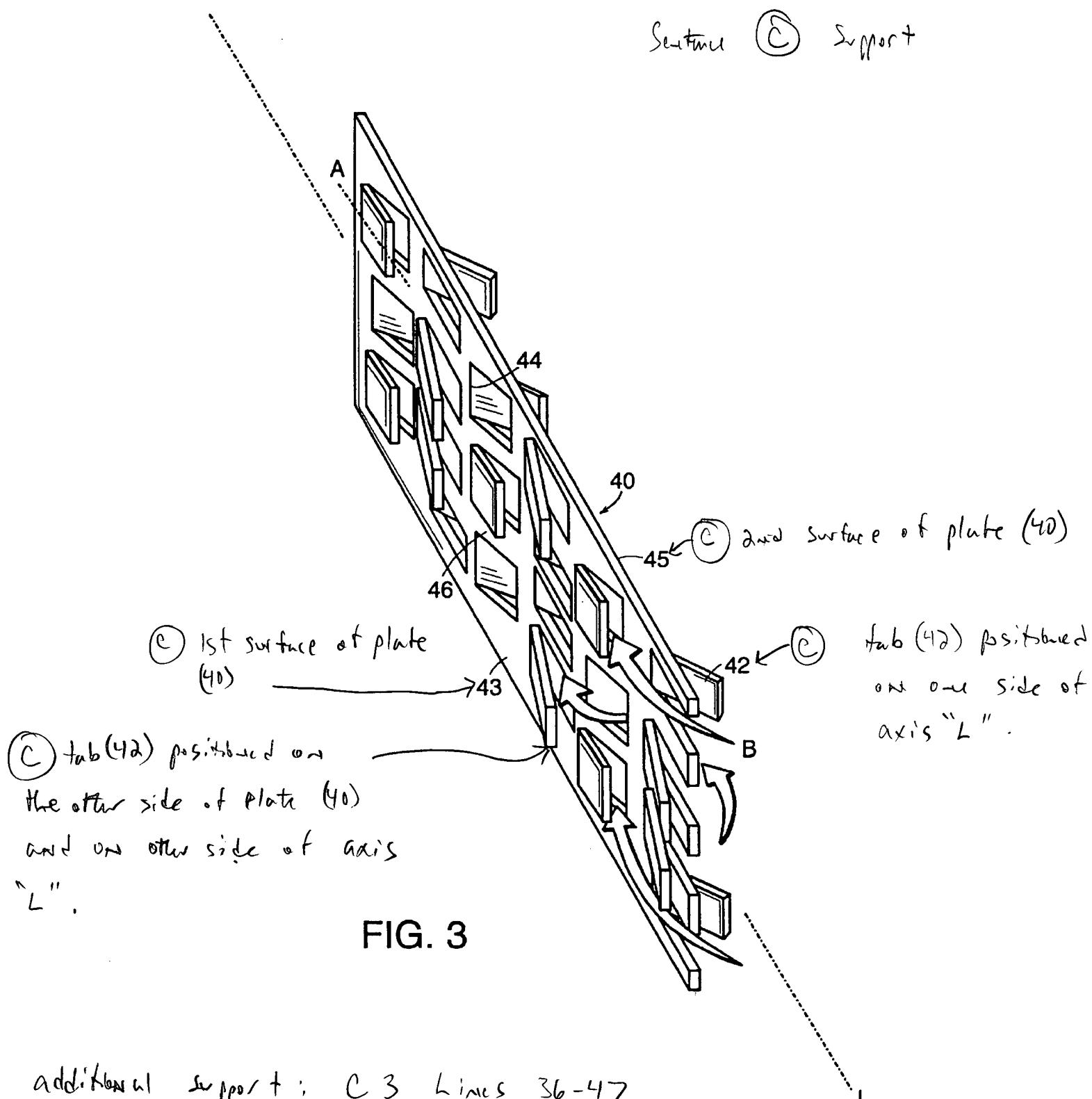
(2) continued

Exhibit B

“As shown in Fig. 3 and as discussed herein, tabs 42 comprise portions of plate 40 which are bent outwardly away from either first surface 41 or second surface 43 of plate 40.”

Exhibit C

“As shown in Figs. 3 and 6-9, at least one of tabs 42 is positioned in the first portion 54 of plate 40 on one side of the longitudinal axis of plate 40 designated as “L” in Figs. 3 and 6-9 and at least one other of tabs 42 is positioned in second portion 56 of plate 40 which is on the other side of plate 40’s longitudinal axis L.”



additional support : C 3 Lines 36-47

C 5 Lines 4-12

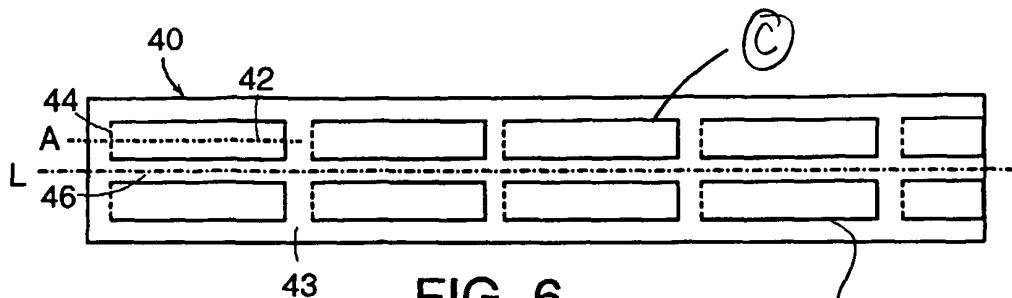


FIG. 6

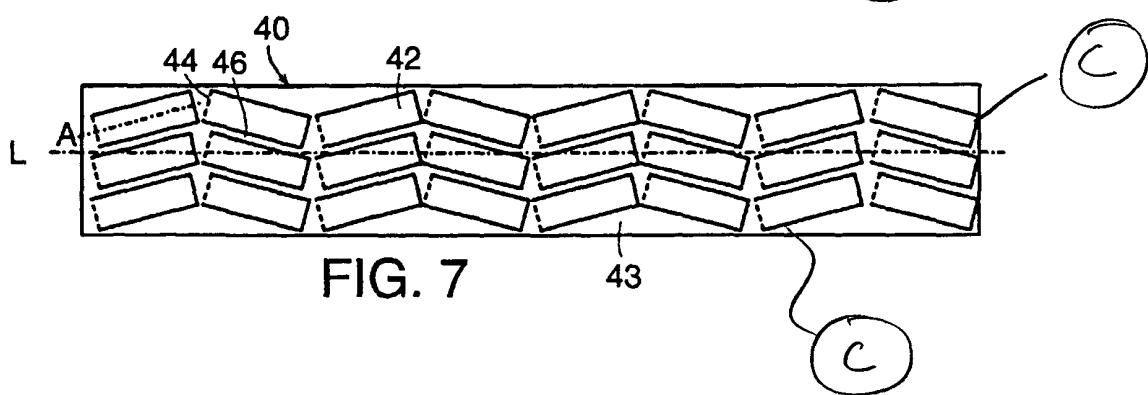


FIG. 7

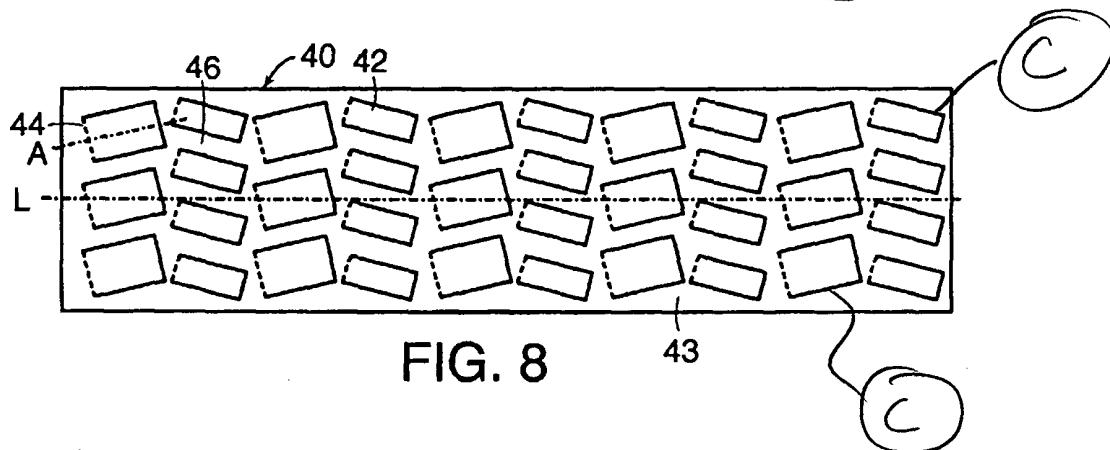


FIG. 8

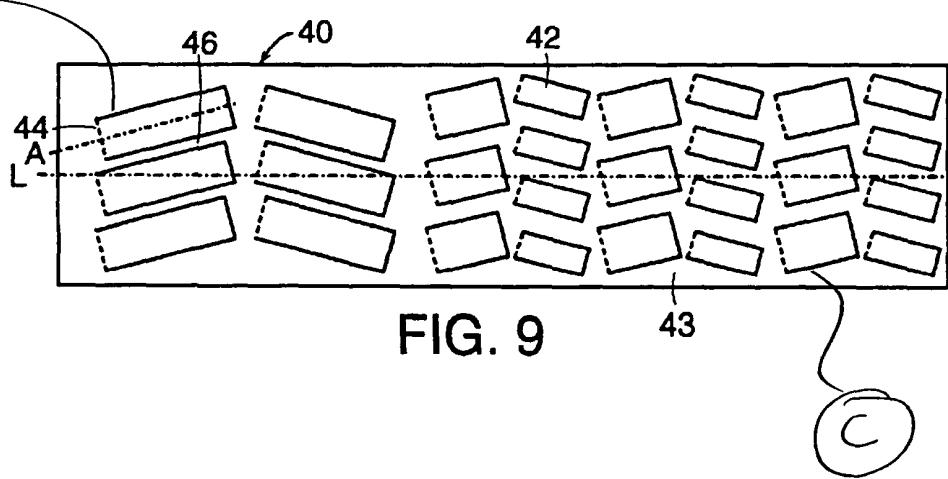


FIG. 9

Sentence ③ Support

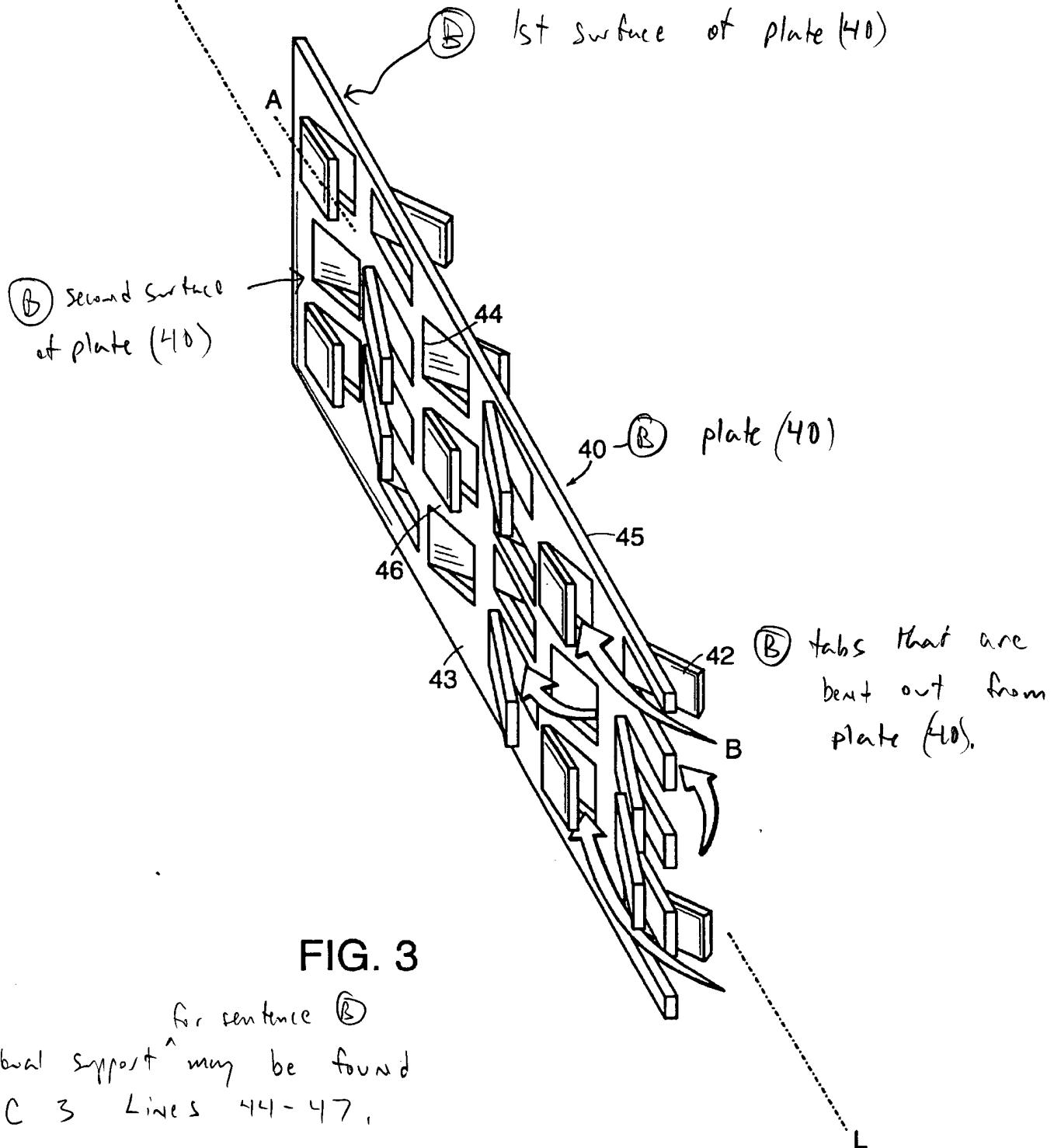


FIG. 3

for sentence ③

additional support may be found
at C 3 Lines 44-47.

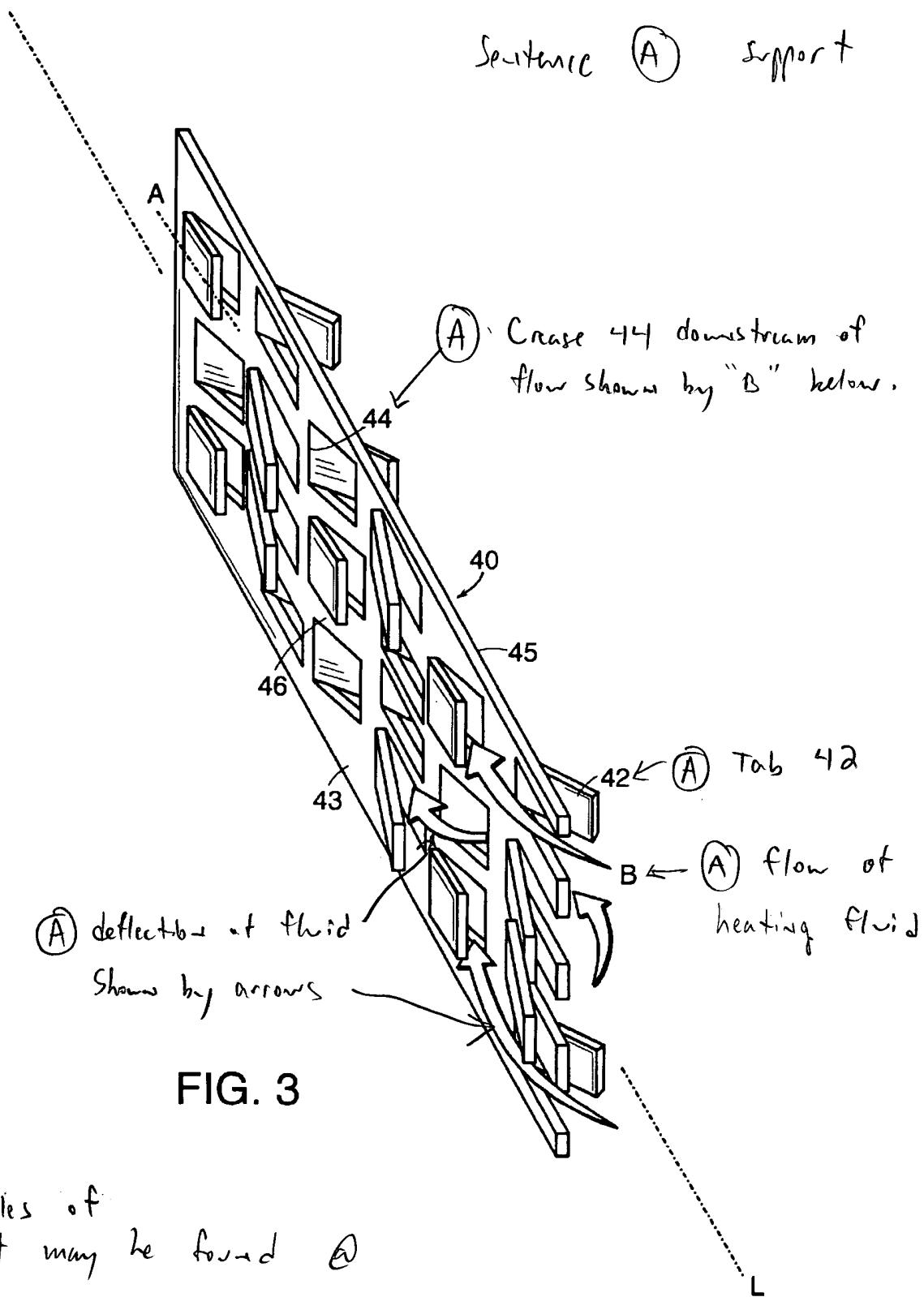


FIG. 3

Additional examples of
Spec. support may be found @

C 2, Lines 2-8; C 2, Lines 18-21; C 4, Lines 9-14

Exhibit D

“As shown in Figs. 3, 4, and 6-9, at least some of tabs 42 are positioned in a plurality of rows of tabs.”

Exhibit E

“As shown in these Figures, in some embodiments, the rows extend in a direction substantially perpendicular to the longitudinal axis of plate 40.”

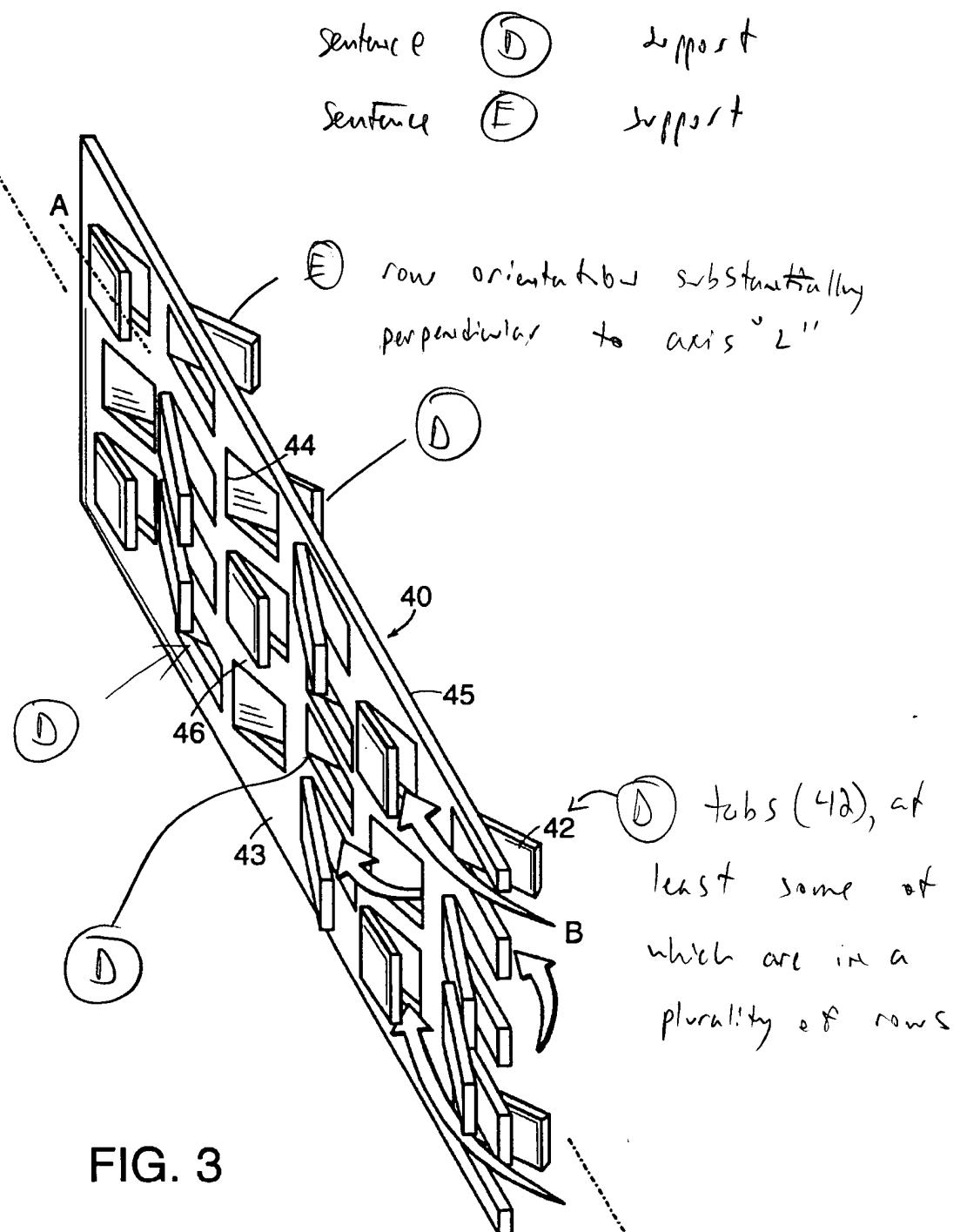


FIG. 3

additional support CS, Lines 7-8; CS, Lines
25-28; CS, Lines 39-42; CS, Lines 46-47.

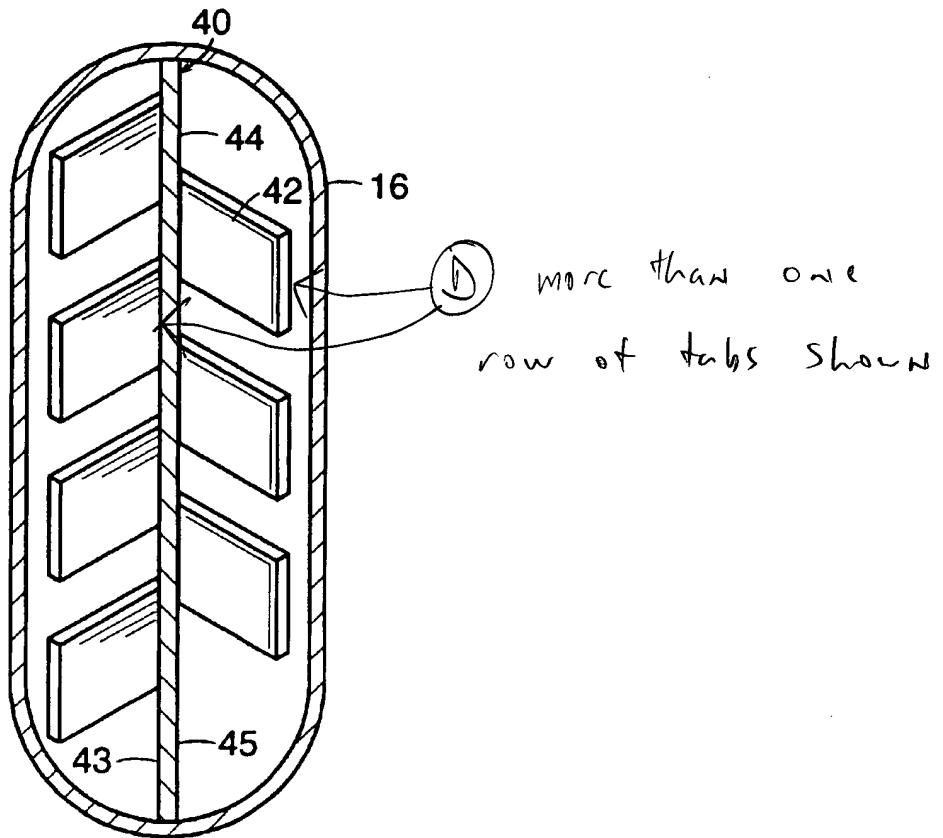


FIG. 4

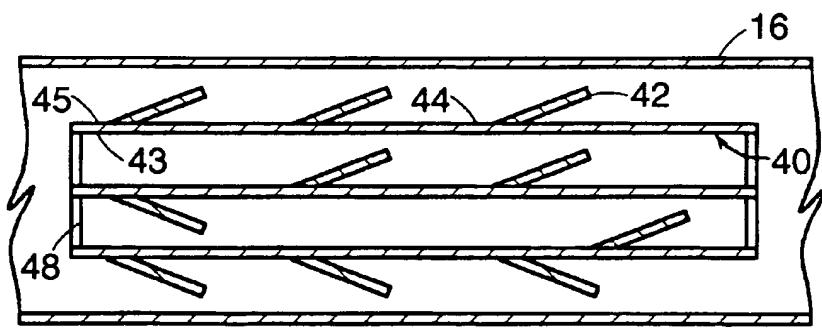


FIG. 5

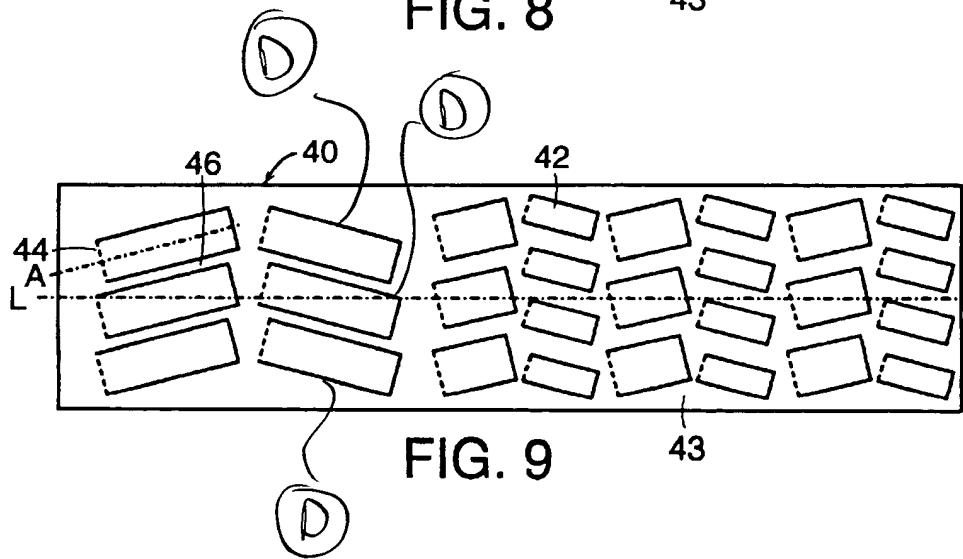
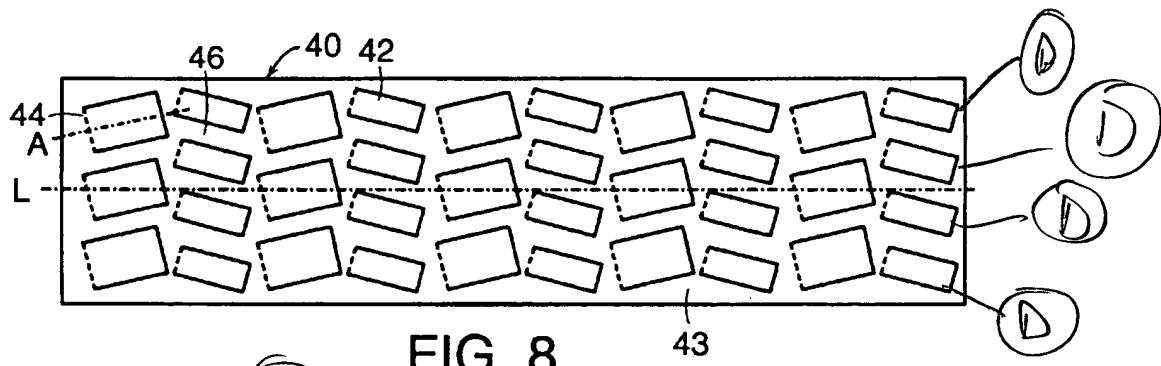
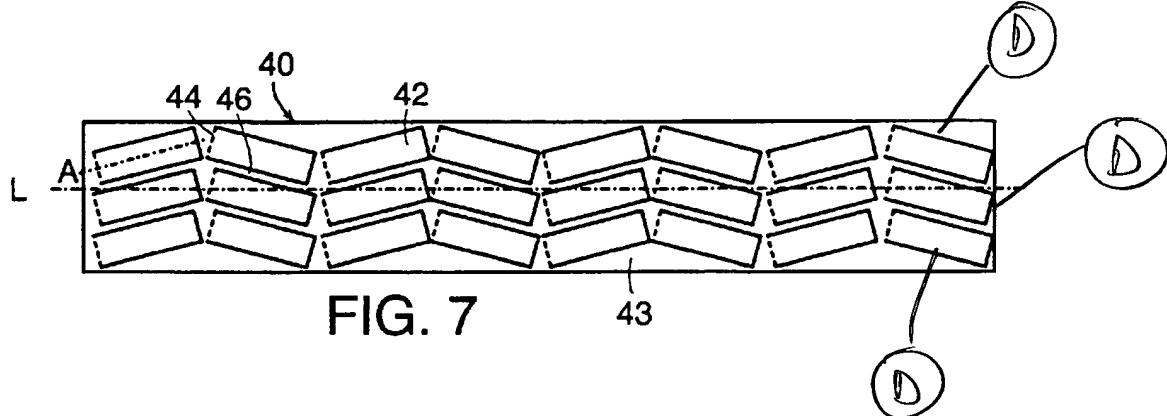
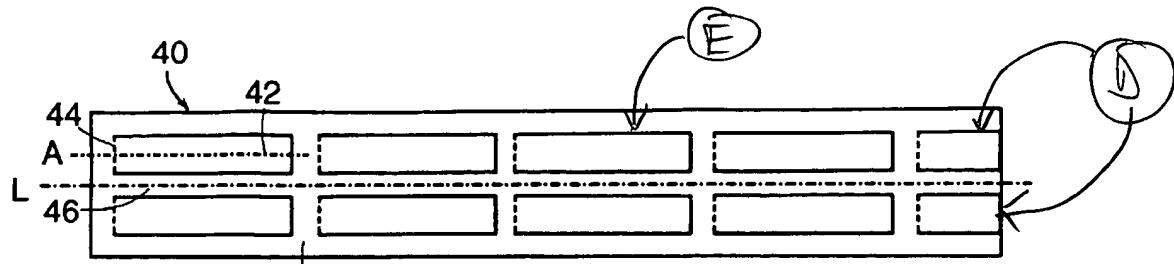


Exhibit F

“As shown in Figs. 3, 4, and 6-9, each row of tabs has a tab 42 positioned in first portion 54 of plate 40 and a tab 42 positioned in second portion 56 of plate 40.”

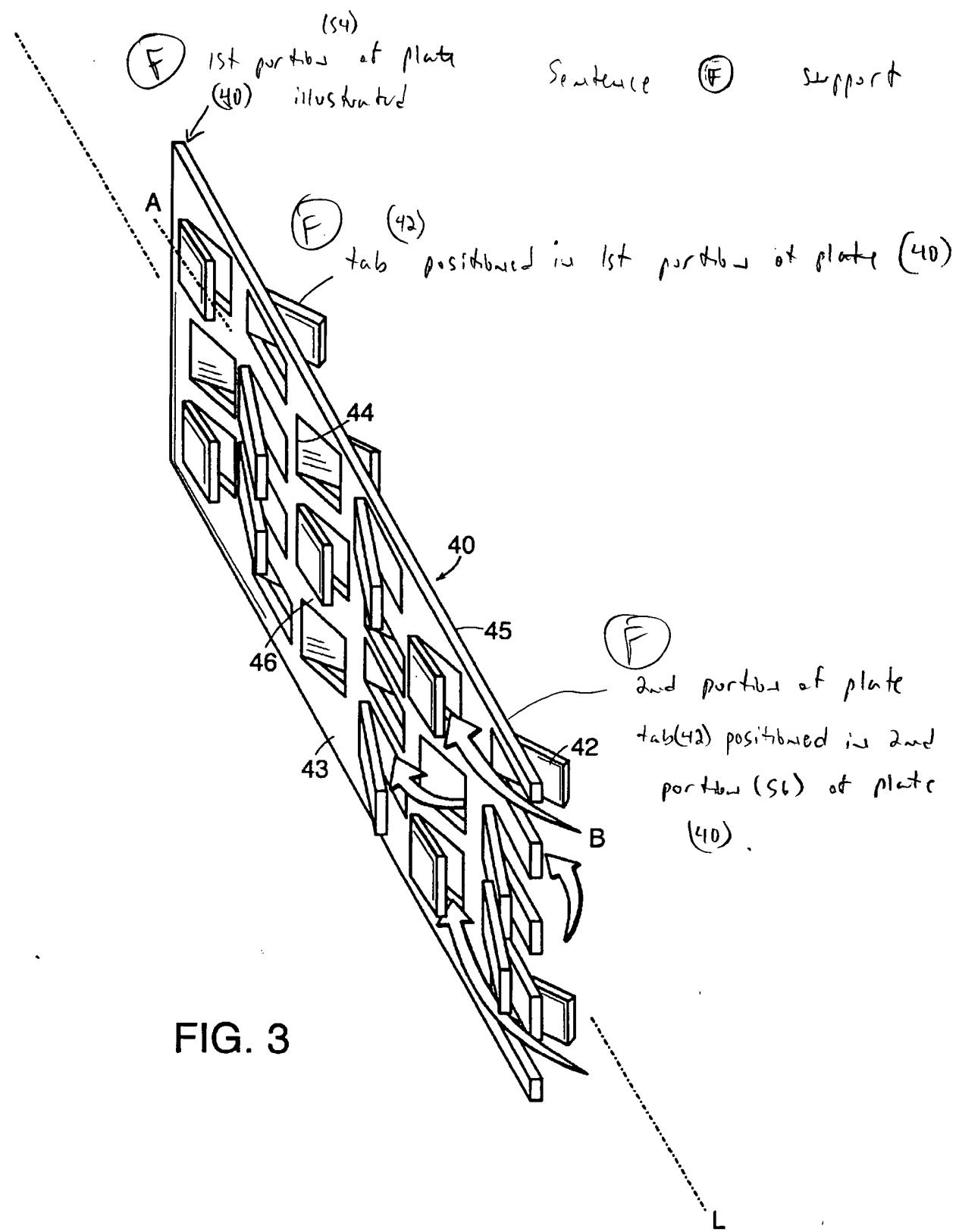


FIG. 3

Exhibit G

“As shown in Fig. 3, in one embodiment, a row of tabs has a tab 42a extending outwardly away from first surface 43 of plate 40, an adjacent tab 42b extending outwardly away from second surface 45 of plate 40 and a third tab 42c which is adjacent tab 42b and which extends outwardly away from first surface 43 of plate 40.”

Exhibit H

“As shown in Fig. 3, other rows of tabs may have the individual tabs extending from either the first surface 43 or second surface 45.”

Sentance (G) Support

Sentance (H) support

for (H) support, see many number
of tabs on this figure.

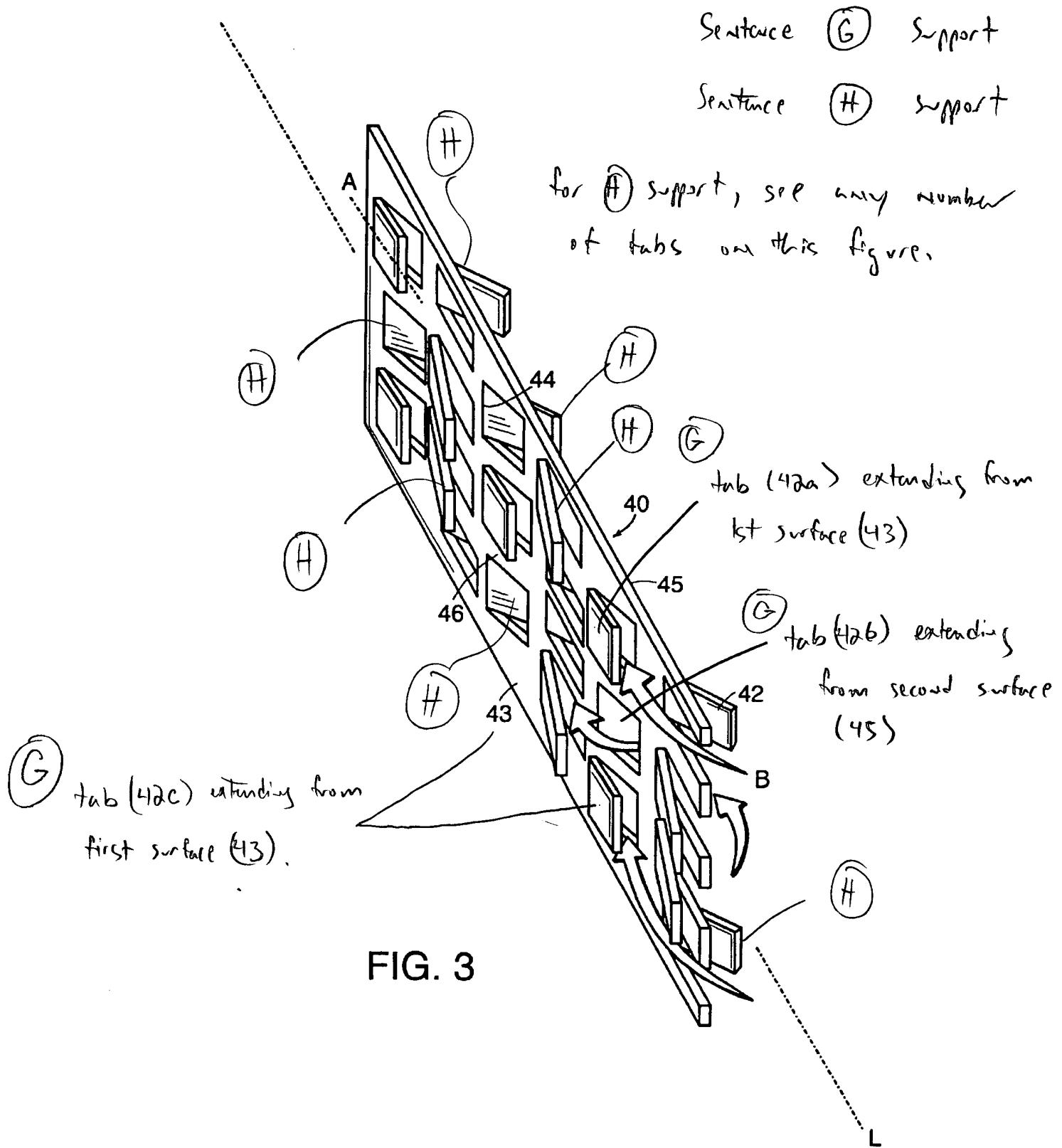


Exhibit I

“As shown in Figs. 3 and 6-9, in some embodiments, for the purpose of describing location and distribution of invention elements, a center line of plate 40 may be located where the longitudinal axis is shown located along the center of plate 40.”

Sentence (I) support +

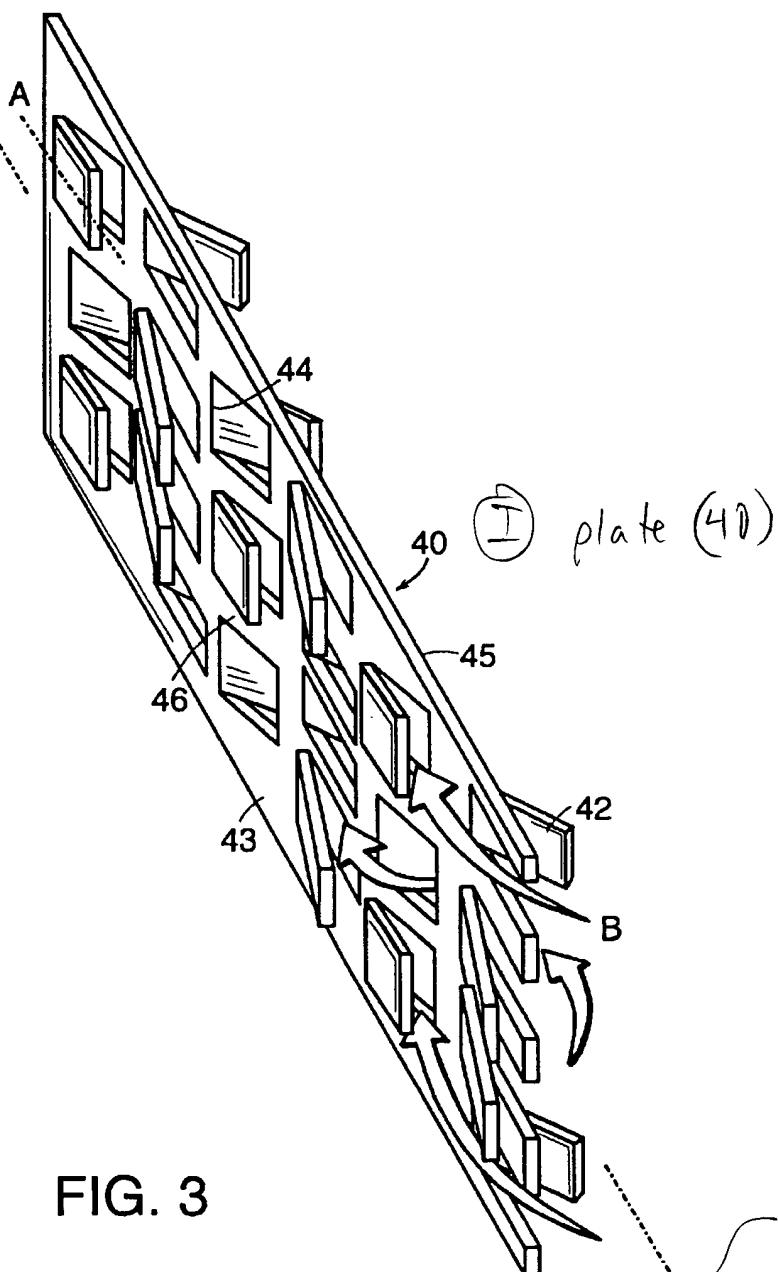


FIG. 3

(I)
longitudinal axis
or centerline
of plate (40).

Exhibit J

“As shown in the figures, in some embodiments tabs 42, holes 58 and tab/hole pairs are arranged so the same are found on both sides of the center line.”

Exhibit K

“Further, as shown in the figures and described herein, in some embodiments these elements are also arranged symmetrically in a pattern about the center line.”

Exhibit L

“In such embodiments, as shown in the figures, the portion of the plate 40 referred to as first portion 54 is instead referred to as first half 54 and the portion of plate 40 referred to as second portion 56 is instead referred to as second half 56.”

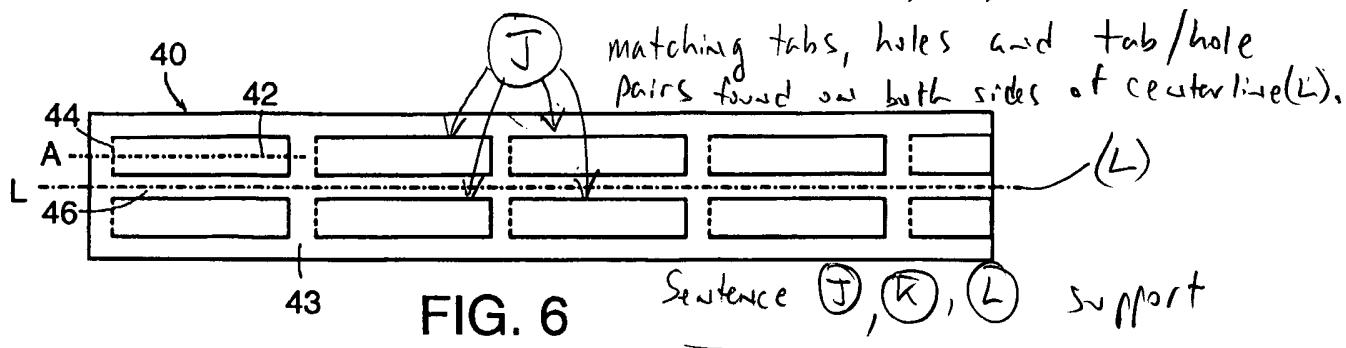


FIG. 6

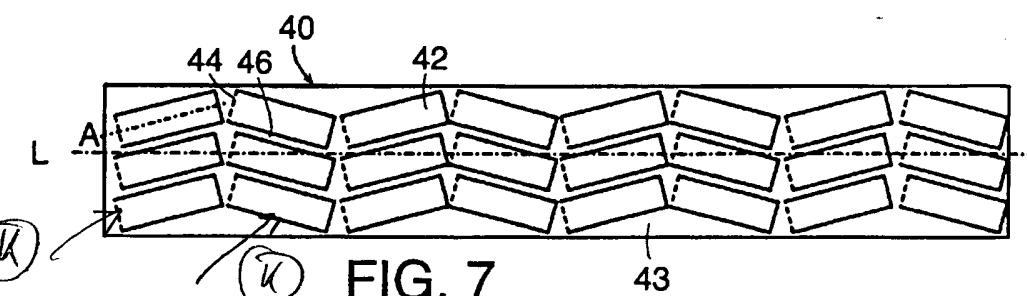


FIG. 7

tabs, holes, and tab/hole pairs arranged symmetrically about center line

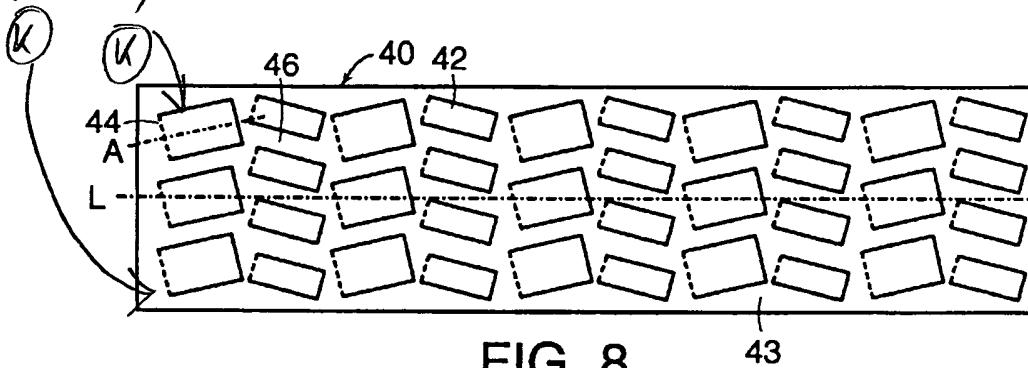


FIG. 8

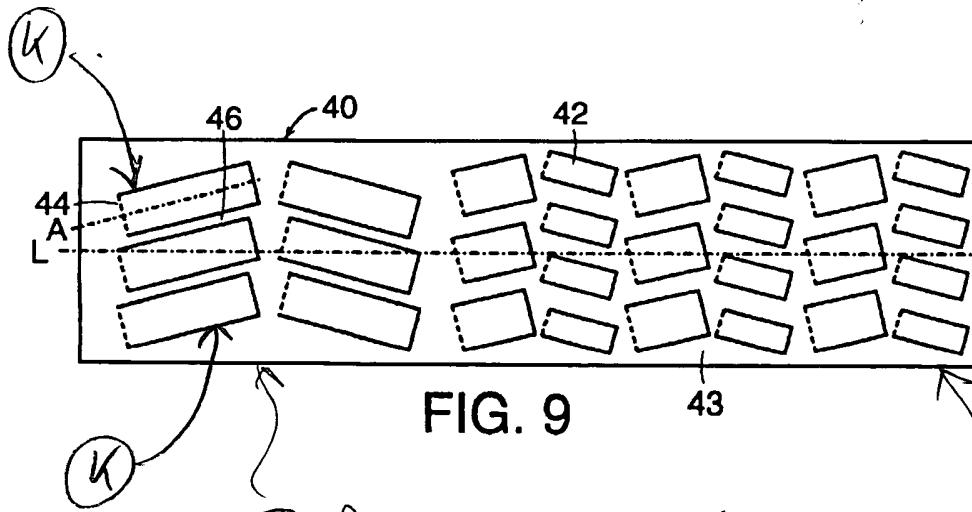


FIG. 9

K first half of plate (40)

L 2nd half of plate (40)

Exhibit M

“As shown in Fig. 3, each tab 42 is adjacent to its corresponding hole 58 in plate 40 created by bending tab 42 from plate 40.”

Exhibit N

“At least a portion of a side of each hole 58 is comprised of crease 44 of tab 42 that hole 58 is adjacent to.”

Exhibit O

“As shown in Fig. 3, crease 44 both connects tab 42 to plate 40 and is at least a portion of a side of hole 58.”

Sentence (M) Support
Sentence (N) Support
Sentence (O) Support

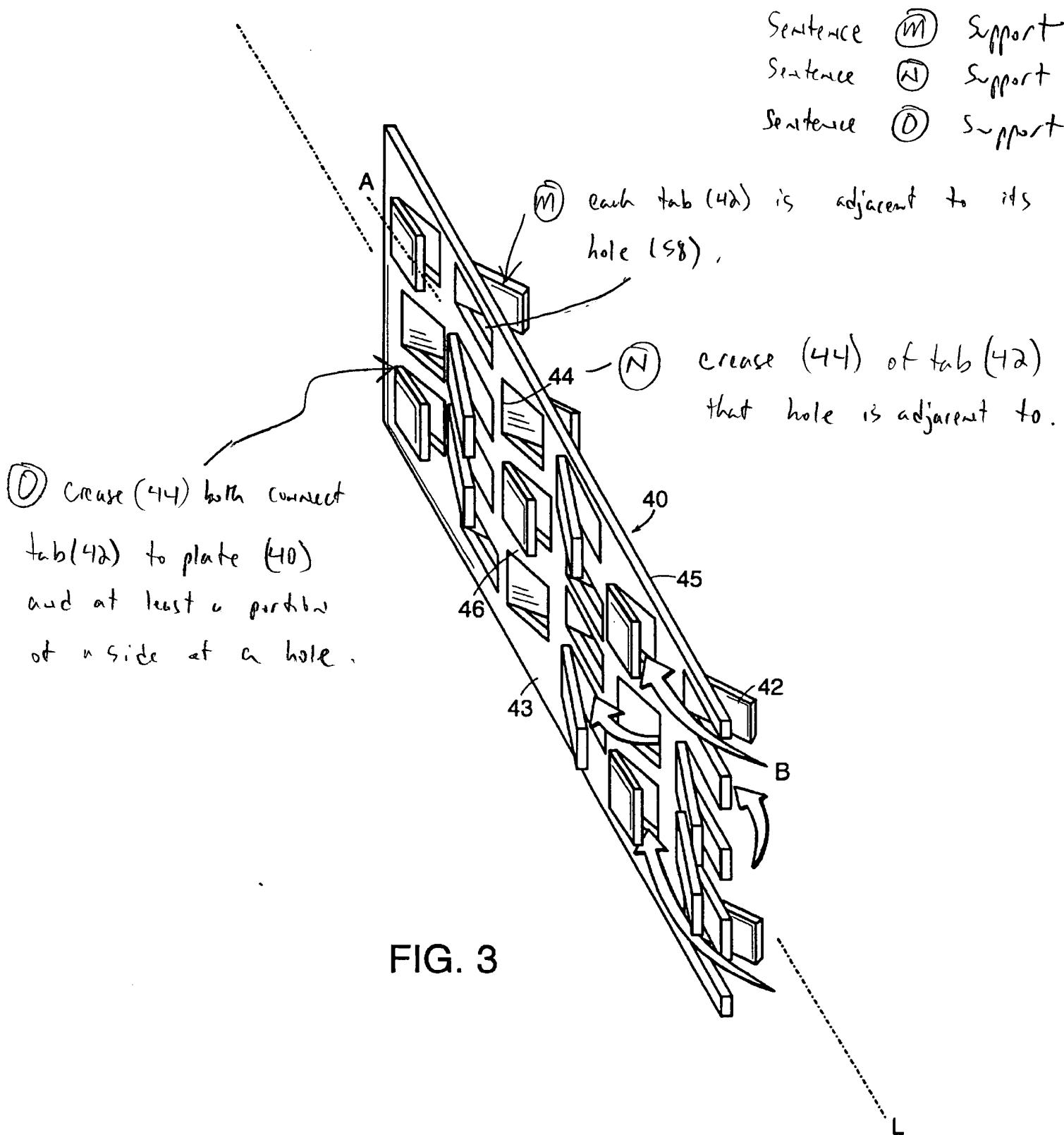


Exhibit P

“As shown in Fig. 3 and reflected in Figs. 4-10, tabs 42 extend outwardly from plate 40 over at least part of their adjacent corresponding holes 58.”

Exhibit Q

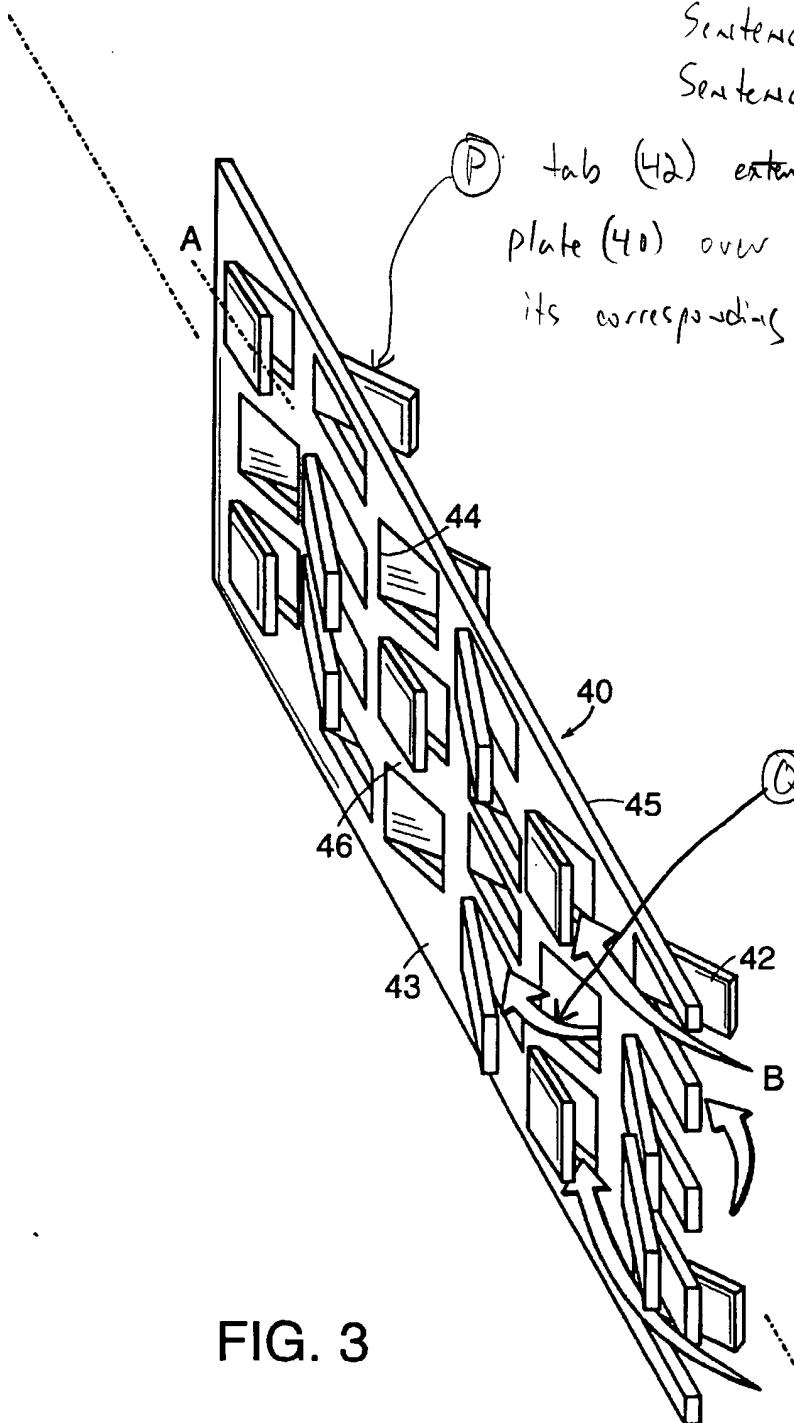
“As expressly shown in Fig. 3, and as is implicit in Figs. 4-10 and the above discussion, heating fluid B is flowable through holes 58 created in plate 40 by bending tabs 42 out of plate 40.”

Sentence (P) Support
Sentence (Q) Support

(P) tab (42) extends outwardly from plate (40) over at least part of its corresponding hole.

(Q) heating fluid (B) is flowable through holes created in plate (40).

FIG. 3

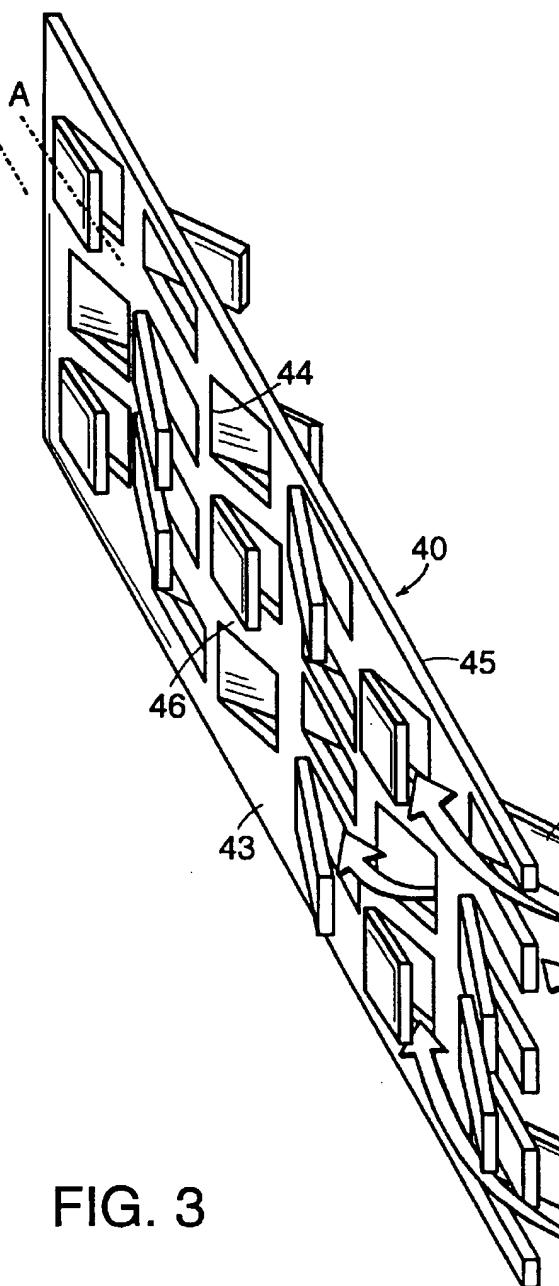


L

Exhibit R

“Further, in some embodiments, as shown in Fig. 3 and implicit in Figs 4-10, heating fluid B is diverted by inner surface 60 of tab 42 through tab 42’s corresponding hole 58.”

Sentence \textcircled{R} support



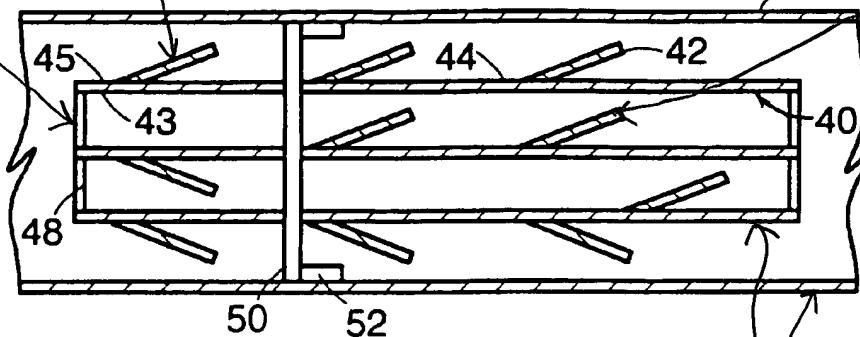
\textcircled{R} heating fluid (B)
is diverted by
the inner surface of
tab (42) through
its corresponding
hole.

FIG. 3

Exhibit S

“As shown in Figs. 3, 4, 5, and 10, the tabs 42 are not in contact with heat transfer tube 16. The baffle plate 40 is located and angled within transfer tube 16, and each of the plurality of tabs 42 on baffle plate 40 have a length and angle which positions tabs 42 relative to heat transfer tube 16 so the tabs 42 are not in contact with heat transfer tube 16.”

(3) each tab (42)
have length and
angle for positioning
relative to tube
(16).



(5) tabs are not
in contact with
tube (16)

(5) Baffle plate is located
and angled within tube (16)

Sentence (5) support

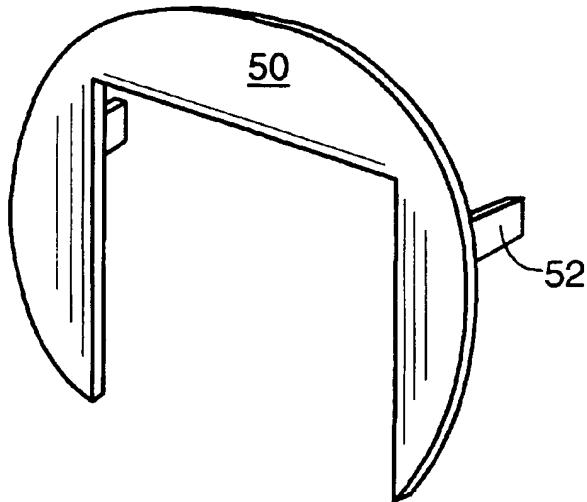


FIG. 11

Exhibit T

“No structure is shown in this application which prevents the heated gas from flowing between the end of each tab 42 and the portion of heat transfer conduit 16 most closely adjacent to the end of each tab 42.”

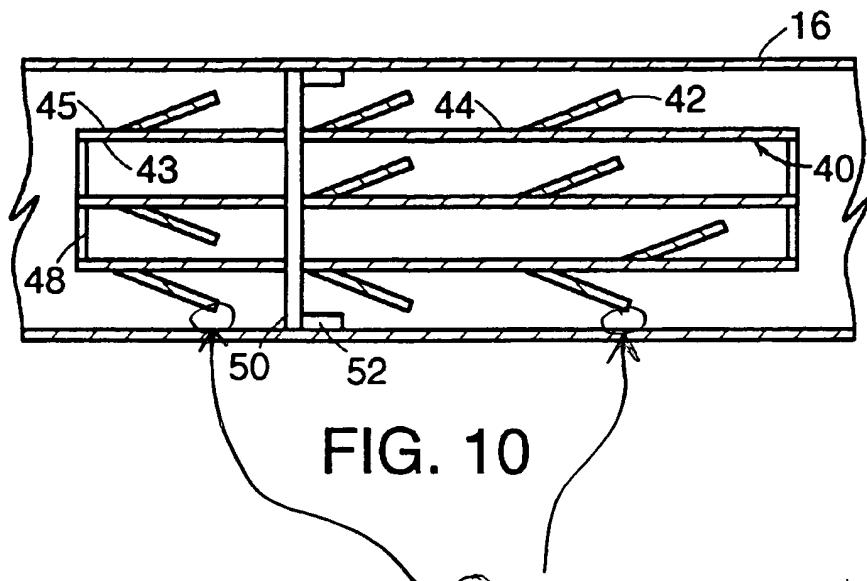


FIG. 10

Sentence ① Support

① nothing prevents heating fluid from flowing between the end of tube (42) and the adjacent portion of the tube (16).

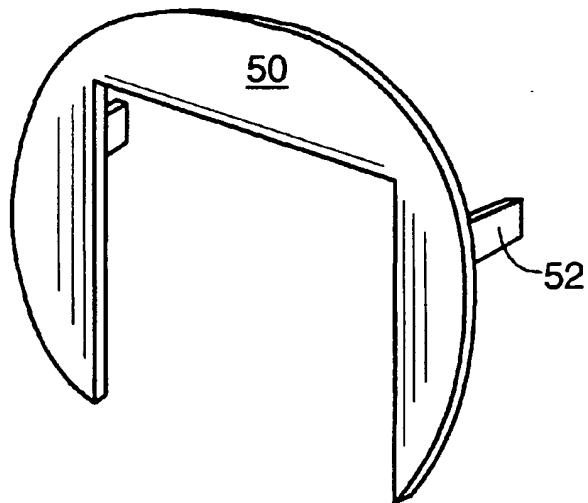


FIG. 11

Exhibit U

“As discussed above, the increased turbulence of flow within heat transfer tube 16 caused by the invented baffle plate improves and enhances heat transfer from the hot gases through heat transfer tube 16 into the vat containing shortening of the deep fat fryer system.”

Sentence (U) Support

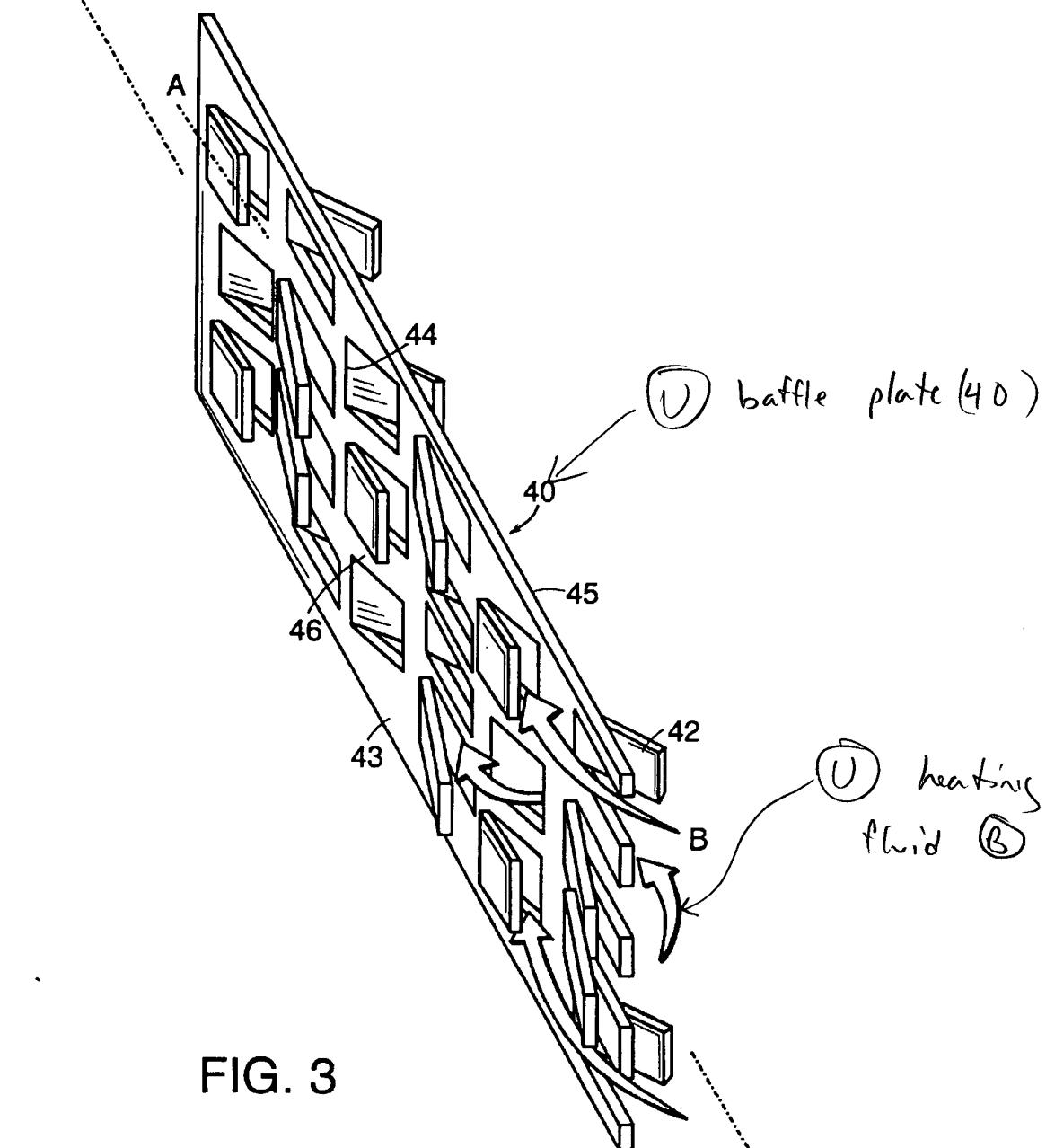


FIG. 3

See also C 41, Lines 11-14

"increased turbulence in heat transfer tube

(16) thereby enhances the heat transfer from
the heated air, through heat transfer tube 16."

Exhibit V

“Each tab 42 and its corresponding hole 58, share a common crease 44 and are referred to herein as comprising a “tab/hole pair.”

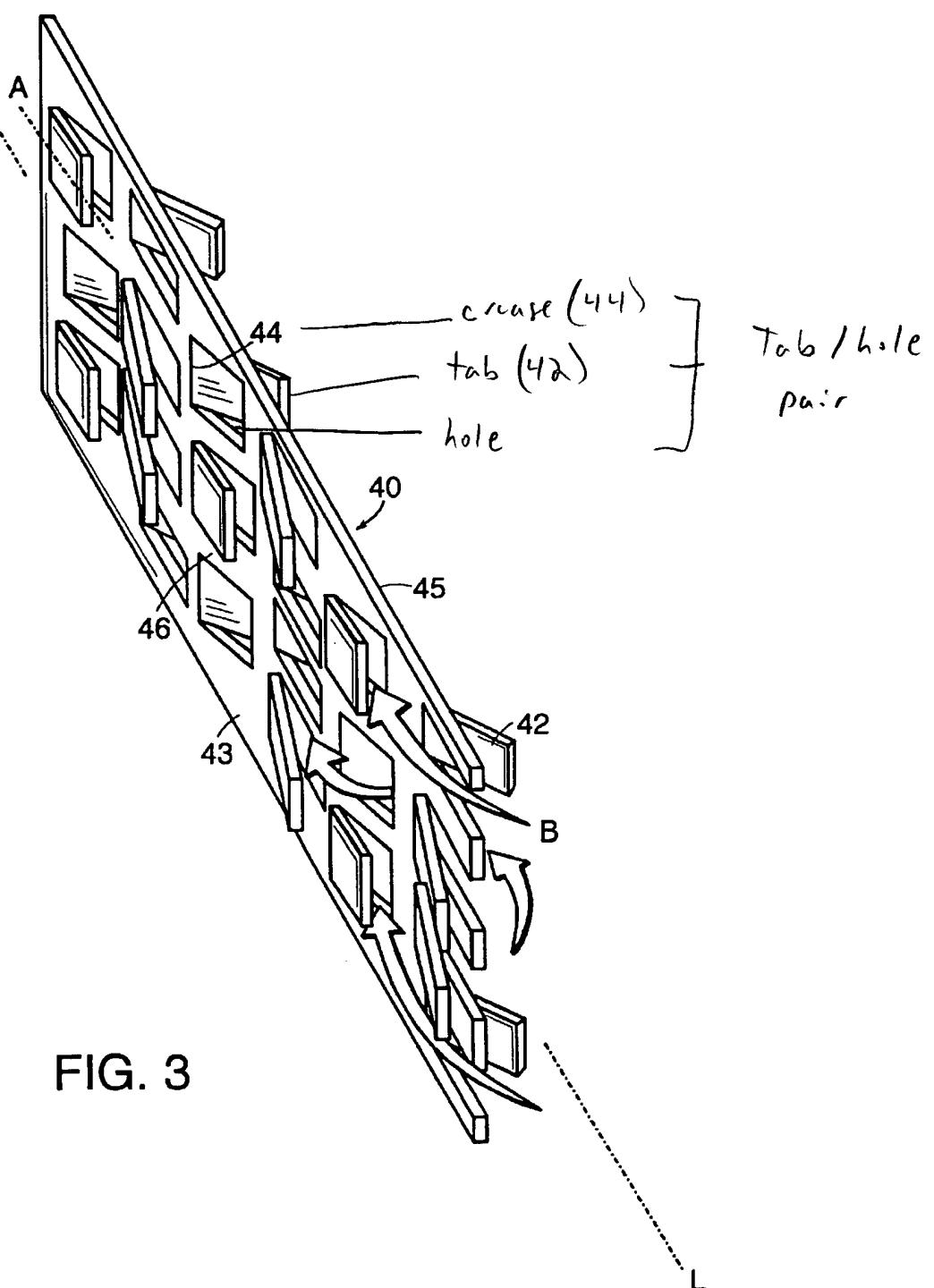
Sentence V support

FIG. 3

Exhibit W

“As shown in Fig. 3, tab 42a and hole 58a comprise tab 42a/hole 58a pair.”

Exhibit X

“Tab 42b and hole 58b comprise tab 42b/hole 58b pair. Tab 42c and hole 58c comprise tab 42c/hole 58c pair.”

Exhibit Y

“As shown in Fig. 3, Web 46a is the portion of plate 40 between tab 42a/hole 58a pair and tab 42b/hole 58b pair. Web 46b is the portion of plate 40 between tab 42b/hole 58b pair and tab 42c/hole 58c pair.”

Sentences (W), (X), and (Y)
Support.

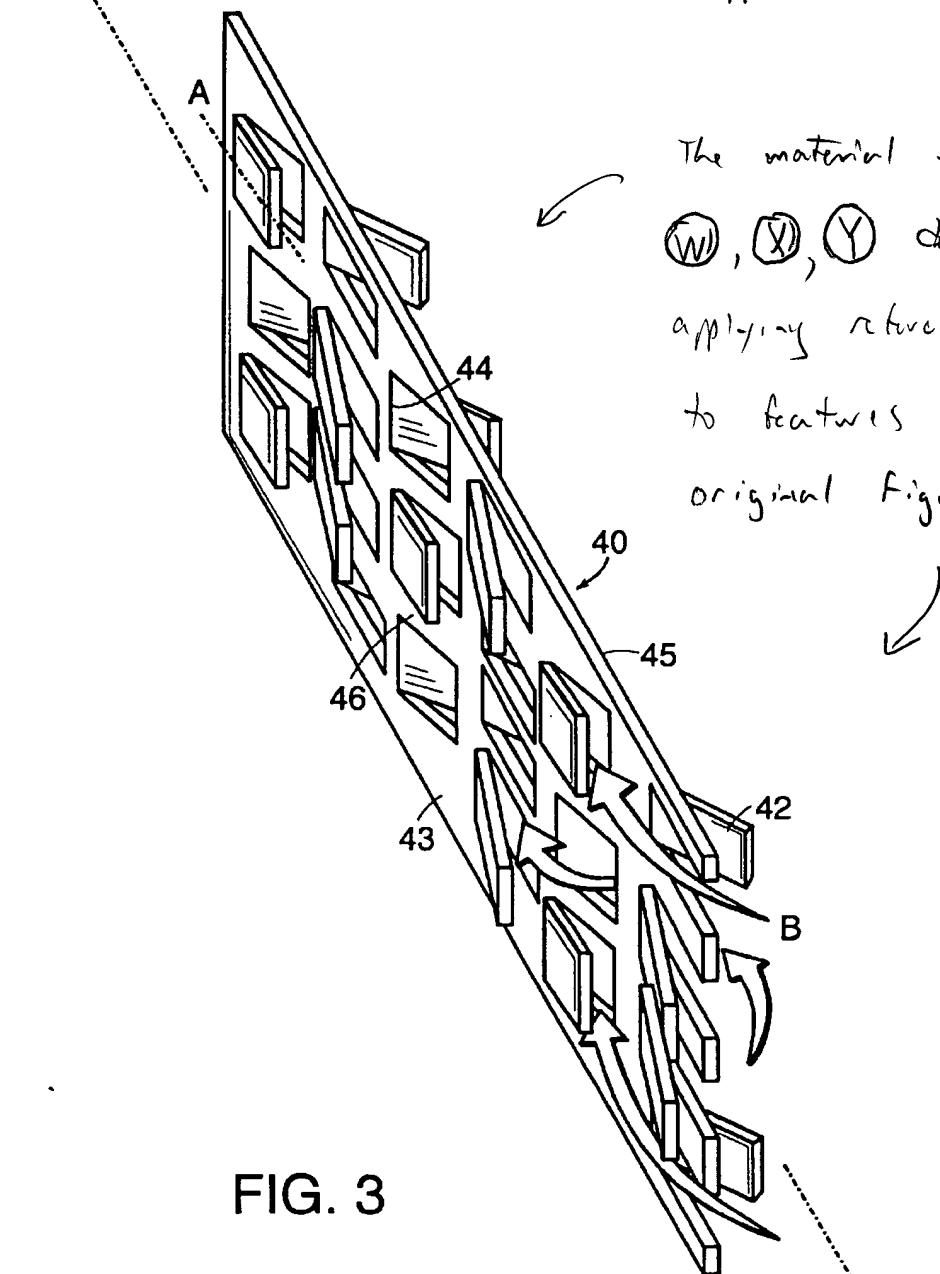


FIG. 3

The material of sentences
(W), (X), (Y) deals only with
applying reference numerals
to features shown in
original figure 3.

Exhibit Z

“As shown in Figs. 3 and 6-9, each row of tabs 42, holes 58 and tab/hole pairs may be comprised of at least two tabs, two holes or two tab/hole pairs, or at least three tabs, three holes and three tab/hole pairs, or at least four tabs, four holes and four tab/hole pairs. No limit to the number of tabs, holes or tab/hole pairs in a row is shown.”

“As shown in Figs. 3 and 6-9, each row has $n - 1$ webs, where n equals the number of tab/hole pairs in the row. If a row is comprised of three tabs and three holes, i.e. three tab/hole pairs, that row has two webs (3 tab/hole pairs - 1 = 2 webs). If a row is comprised of four tabs and four holes, i.e. four tab/hole pairs, that row has three webs (4 tab/hole pairs - 1 = 3 webs).”

“As shown in Figs. 3-5 and 7-10, the relationship of tabs 42 on the baffle plate 40 is to generally present alternating sizes, arrangements and angles to the flowing heated gas and alternating from extending from first surface 43 and then second surface 45, for the purpose of increasing turbulence.”

“Some rows are presented in which tabs 42 alternately extend from the first side and second side.”

“As shown in the figures, tabs 42 are presented which extend from the first surface of the tab preceding it (from the point of view of the flowing heated gas of Fig. 3) extend from the second surface and vice versa.”

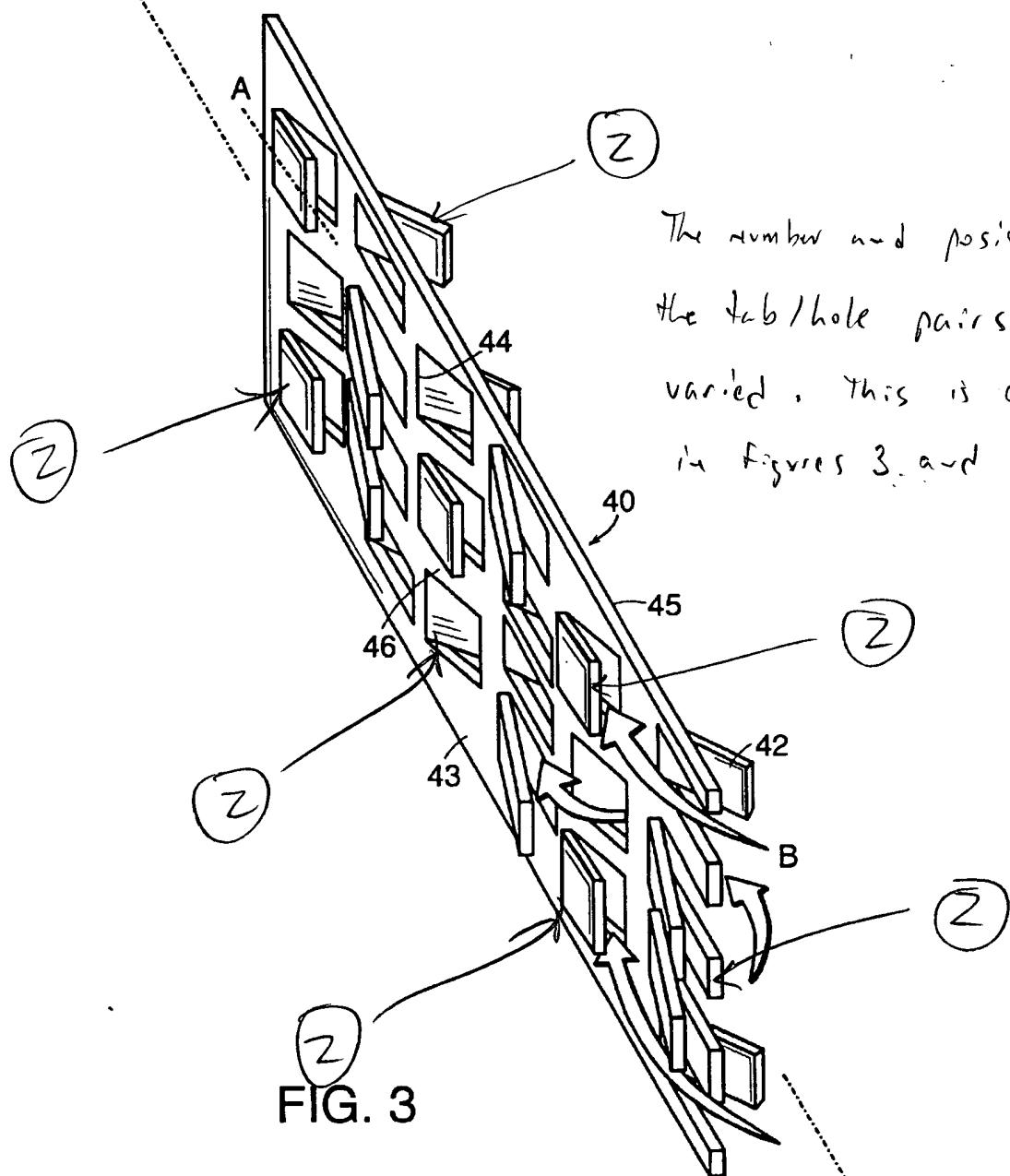
“As shown in the Figs., an equal or approximately equal number of tabs, holes, webs, and tab hole pairs may be arranged on either side of the center line of baffle plate 40 on both sides of the baffle plate, which is shown in Figs. 3 and 6-9 as corresponding with longitudinal axis L.”

“As shown in Figs. 3 and 6-9, they may be and arranged generally symmetrically about the longitudinal axis L.”

“As shown in Fig 6, the webs and tabs may be positioned in straight lines, one behind another, in the direction of the longitudinal axis L.”

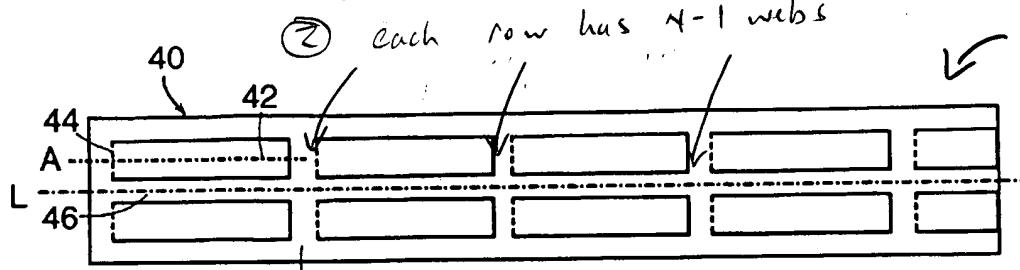
“As shown in Fig 6, the tabs 42 may be similarly positioned.”

Portion (Z) support.



The number and position of the tab/hole pairs may be varied. This is clearly shown in figures 3, and 6-9.

See also Column 5, Lines 46-47 which states that rows may have the same or different number of tabs from each of the other rows.



(2) →
tabs similarly positioned

FIG. 6

(2) at least
2 tabs

(2)
approximate number
arranged on
each side
of the baffle
plate.

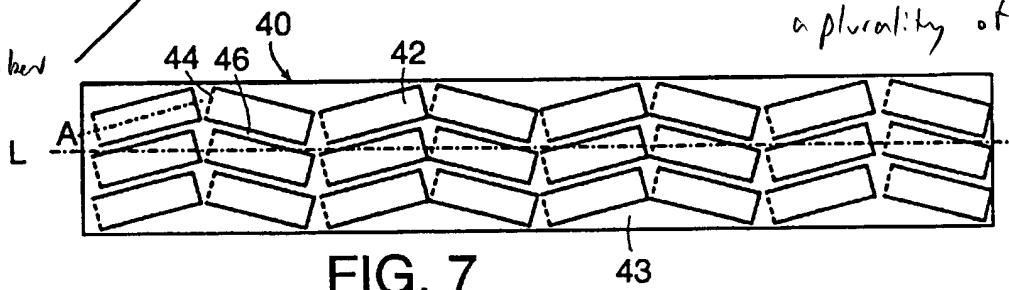


FIG. 7

FIGS 6-9 provide
additional examples of
a plurality of variations.

(2) at least
3 tabs

(2)
Longitudinal
axis →
tabs on each
side of axis

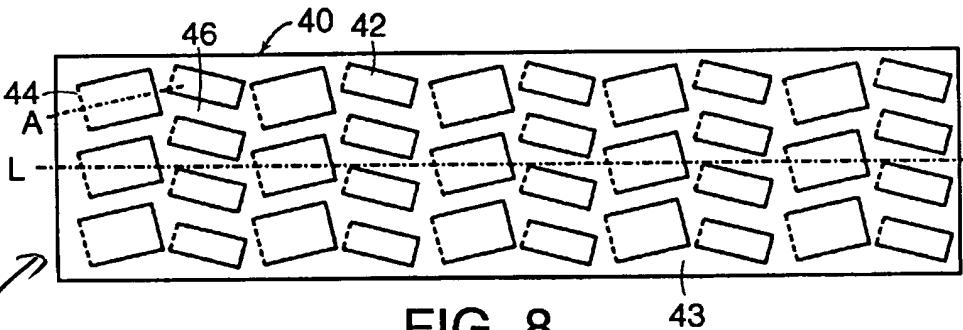


FIG. 8

(2) at least
4 tabs

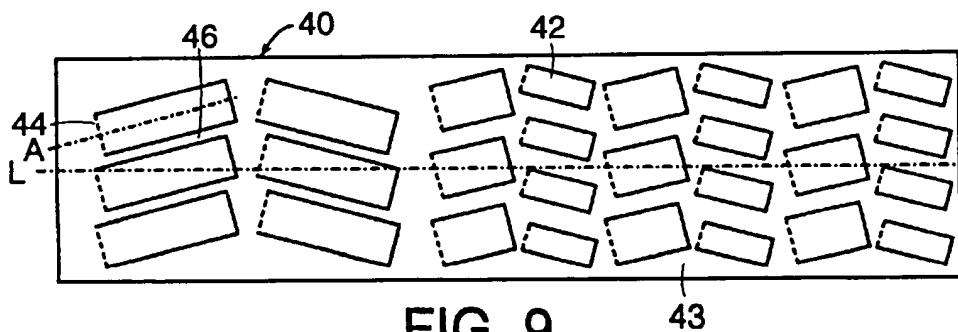


FIG. 9